

U. S. DEPARTMENT OF AGRICULTURE.

FORM 15.

FIELD DIARY  
AND  
TRAVEL RECORD.

Mr. E. A. Goldman

(Official title.)

Period, Oct. 13. to Nov. 28, 1922

Arizona-California  
NOTICE.  
(Trip in Arizona strip)

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8-3681

## INSTRUCTIONS.

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This diary will be retained by the official preparing same, but will be subject to call by the administrative officers of the Department at any time.

When this book is filled another may be secured by application to the Chief of your Bureau.

*Yermy Wallace*

Secretary of Agriculture.

8-3681

DATE	STATIONS	COUPON NOS.	PULL	SCRIP VALUE	FORM
125281					MEMO. OF COUPONS DETACHED FROM PAGE BOOK NO. 8-3681
Moapa to G.C.					
Verhies, Chas. P. - Tucson	From				R.R.
Goftfield, Sam -					
Two in organic houses					R.R.
Interchanges at Union, 1 mile out.					
Stop at Congress Hotel, near station - Tucson.	To				R.R.
Taylor - Wire to to meet me at train at Del Mar. Sta. R.R.					
<del>Being</del> Dick, Donald R.					R.R.
Pasadena - Take Sta. R.R. to Pasadena					
From S.P. Depot, F.A.	From				R.R.
From L.A. take 9.05 train if convenient					
The Distribution of Vegetation in the U.S. as relating to climatic conditions.					R.R.
Burton E. Livingston					
For not share					R.R.

MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO. SCRIP

FORM

5-31

MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO. SCRIP

**FORM**

8-4-3681

[illegible]

MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO. .... FORM  
scrip

8-31

MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO  
SCRIP

© 2004

STATIONS		R. R.	COUPON NOS.		PULL	SCRIP VALUE		DATE
From	To		From	To		Dolls.	Cts.	
<p>Get Buell, 730 - B.</p> <p>U.S. G.S.</p> <p>Erosion and Sedimentation</p> <p>in the Papago County,</p> <p>Ariz.</p> <p>with a sketch of the</p> <p>Geology. By Kirk Bryan</p>								

MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO. \_\_\_\_\_ FORM  
SCRIP

8-365

[illegible]

Oct. 13, 1922 - Mt. T<sup>ar</sup>zan<sup>az</sup>  
Left camp 6 mi N. of Mt. Turnbull  
about noon and travelled ~~southward~~  
winding about over very rough  
terrain and finally climbing  
up to about 7000 ft. at the  
saw mill on Mt. T<sup>ar</sup>zan<sup>az</sup> where  
we stopped for the night.  
Cyanocceph. cyan. Flocks of  
junco jays were seen in  
various places along the  
route today especially near  
Mt. Turnbull which was passed  
~~on~~ on the west side.

Route was southerly passing to the west of Mt. Turnbull. Camp at sawmill well up in yellow pine, with pinyons and junipers appearing a short distance below. Camp was made shortly before dark.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs. -----			
Baggage transfer ----- pcs. -----			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous: -----			
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8-3081

Oct. 14. Mt. Logan to  
Diamond Butte.

Left camp at 8 A.M. and travelled southward several miles to the west of Mt. Logan (locally called Lookout Mountains) and then followed the exceedingly rough lumber road down Hurricane Ridge which at this point becomes simply a very steep slope there being no real ledge of great height as begins a short distance to the north. In many places we were obliged to fill the ruts with rocks to ride over high centers. From the foot of the hill we turned north over a <sup>limestone</sup> plain largely overgrown with a scanty growth of atriplex and camped

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip			
Dinner ..... Tip			
Supper ..... Tip			
Lodging, ..... to			
Laundry			
Porter ..... Sleeper			
..... Parlor car			
Depot porter ..... Arrival			
..... Departure			
Hotel porter ..... Arrival			
..... Departure			
Checking baggage ..... pcs.			
Baggage transfer ..... pcs.			
From ..... to			
Street car fare—			
From ..... to			
Miscellaneous:			

Oct. 14 con.

For the night when abreast of and about 2 miles west of Diamond Butte. A large number of traps were set along limestone ledges and about atriplex bushes.

Neotoma disjuncta. Specimens taken yesterday on Hurricane Ridge were trapped about limestone which alternates or are sometimes overlaid by lava. They were exceedingly dark brown and probably represent a dark race inhabiting this section which is of old lava as shown by erosion and vegetation.

Oct

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 15, Diamond Butte to 6 mi. N. of Wolf Hole.

Left Diamond Butte about 1 P.M. and travelled north to Wolf Hole where some time was lost in making inquiries, and from that point continued on by main road to a point on the Virgin Valley slope just before beginning the steep descent where we camped at about 3500.

Road continued over ~~atypical~~ plain through limestone-lava country to Wolf Hole then crossed a ridge and descended steeply through a break and wash to camp ~~well down~~ in the L.S. zone just above upper



ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare				
From	to			
Miscellaneous:				

Oct. 15

limit of lowville.

Dipod. microps. Abundant about "plateau" and along bushes near our camp. Burrows in low mounds with many entrances measuring up to 3 inches in diameter in loose chalky soil of light color.

Oct. 16 - St. George.

Left camp at 3000 ft. on Ariz. side and crossed Virgin River to St. George.

Oct. 17 - St. George to Littlefield. Left St. G. at 10 a.m. and travelled 37 mi. to Littlefield where we camped on Beaver dam Cr. and hops were set in loose drifting sand which covers a considerable

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer --- ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 17 con.

But interrupted area the country round big of gravelly on strong levelled plains character on both sides of the valley.

The Virgin River merges from a box canyon a short distance above ~~the~~ G. Littlefield.

A large number of traps were set mainly in sand.

Oct. 18. Littlefield to ~~Messiah~~ Virgin River 8 miles below.

In afternoon ran on down to Messiah Riv. 11 mi. and turned back and camped on Virgin Riv. about 3 miles above. Arranged to cross river for trip to Virgin Riv. tomorrow.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer ... ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 19. Virgin Mts. Ariz.  
Left river after crossing with  
help of team and climbed  
steep plain to base of Virgin  
Mts. entering Elbow Canyon to 3000 ft.

Thomomys. Abundant in  
alfalfa fields at Littlefield and  
along river above Mesquite,  
Nev.

Mazppie - Two at camp base  
of Virgin Mts.

Found in large numbers at spring.  
Red-tail

*Prosopis juliflora*

*Acacia greggii*

*Echinocactus*

*Artemisia*

In afternoon climbed up to about  
5000 ft. in upper Sonoran zone and  
set traps.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... Sleeper .....			
..... Parlor car .....			
Depot porter ..... Arrival .....			
..... Departure .....			
Hotel porter ..... Arrival .....			
..... Departure .....			
Checking baggage ..... pcs. ....			
Baggage transfer ..... pcs. ....			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 19 con.

Loph. gambeli. - Hundreds of quail calling to each other and crowding about the water at the lower spring in Elbow Canyon where the country is L.S. zone. Not seen about the water at several springs not far above which are in U.S. zone (Gunnison and Gunnison country). One was seen in the claws of a hoopoe hawk which flew close past me in the narrow canyon.

Accipiter cooperi. Several seen at about 3000 ft. in Elbow Canyon where they are ~~seen~~ probably killing a good many quail (Loph. gambeli) which are abundant at that point. One carrying a quail which had apparently just been caught flew past

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 19 con.

me along the narrow bottom  
of the canyon on rocks  
Eutamias dorsalis. One seen  
among pines and junipers at  
about 4500 ft. along Elbow  
Canyon.

Oct. 20 - Virgin mts. &  
camp ~~also~~ on Virgin River about  
3 miles above Mesquite.

Pack up traps and descended  
basal slope of mts. to ranch.  
Dist. travelled about 7 miles.

Perom. erim. One caught among  
oaks on ~~northeast~~ <sup>Elbow</sup> northerly slope  
where opposite side bore J.S.  
vegetation.

Buteo B. calurus. One seen  
near camp at 3000 ft.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
	Parlor car .....		
Depot porter ..... { Arrival .....			
	Departure .....		
Hotel porter ..... { Arrival .....			
	Departure .....		
Checking baggage ..... pcs.			
Baggage transfer ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			

Oct. 20, con.

Aphelocoma woodhousei -  
Common.

Salp. obs. Several seen.

bat. su. contp. Heard near  
camp.

Pipilo m. mac. - One seen at  
wet place in L.S. zone at  
4500 ft.

Fallogia parodius - L.S. zone

Artemisia trid. - common in  
U.S. zone.

Dipod deserti. Burrows along  
east side of Virgin River off.  
ranch 3 miles above Mizzito Nev.

Prinos pard. A few on top of  
Mts. above about 7000 ft.

Oct. 21. Near Mizzito,  
Nev. to ~~the~~ camp near Mud  
Springs.

ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging,	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare—				
From	to			
Miscellaneous:				

Oct. 21 con.

Left camp near Mizzouille and drove to St. Thomas - 38 miles and learning that it would be practically impossible to get to Gregg's Ferry turned nearly east <sup>at a right angle</sup> to vicinity of Mud Spring where we camped and traps were set. Am uncertain whether this place is in Nev. or Ariz.

Route today over Lower Sonoran desert rising over basal slope of the southern group of the Virgin Mts.

Oct. 22 - Grand Wash Ariz. - Continued <sup>about</sup> 10 miles today, crossing the broad summit between the Virgin Valley and the Grand Wash drainage

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs.			
Baggage transfer ... .. pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			

Oct. 22,

at about 3500 ft. altitude a short distance east of our camp. From this summit good views were obtained of the Grand Wash cliffs which extend for many miles and are broken in places into several terraces rising one above the other. What I took to be Mt. DeLienbaugh stands ~~as~~ prominently ~~with~~ as an elevated portion of the Plateau Shinarump Plateau near its southern end. We ran down the rather gradual slope into the bottom of the Wash where several old roads and we continue up portions of the Wash. Camp was made just below where



ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer ... ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 22. con

a western fork known as Black Wash enters the main wash.

Grand Wash is really a broad wash in the bottom of a valley 6 to 10 miles wide bordered on the east by the Grand Wash bluffs. Most of the valley bottom is a limestone levee covered plain. In places the limestone is thickly overlaid with broken lava and lava ledges appear in a few places, especially along Black Wash. Several springs of good water occur along the eastern side of this portion of Grand Wash, with ~~a few~~ an occasional willow, ~~sage~~ and patches of arrowweed

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer ... ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 22 con.

about them. The bottom of the wash is of loose sand in places, but for the most part is hard and stony.

Veg. The general area is covered with a the usual growth of *Leovillea* with <sup>a few</sup> *mesquite* and *lebilopsis* along the washes.

Two species of *Yucca*, one a tree species, occur prominently on some slopes. Two species of *Echinocactus* sometimes occur together. The larger <sup>tree</sup> *Yucca* is locally known as "Joshua".

Oct. 23. Grand Wash.

A good catch of small mammals was made last night. Today moved camp about two miles

ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging,	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare				
From	to			
Miscellaneous:				

Oct. 23 con.

up wash to a point assumed to be about 6 mi. S. of Pakoon Spg. where some pocket zoophores were located in a patch of arrowweed near a spring on the east side of the wash.

Diplo. diserti. Abundant in loose in bottom and on tops of Grand Wash.

Diplo. merriami. Generally distributed.

Maggie - Two seen.

Famias - Several

Corvus sim. "

Oct. 24 - Grand Wash to Moapa. Back to St. P. and then to Moapa. Took train Dec 8.49 for Maricopa

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ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs.			
Baggage transfer ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 25-

Arrived Maricopa 4:25 A.M.  
Left 2 P.M. for Williams

Oct. 26

Arrived Williams 4:35 A.M.  
Left for Grand Canyon 8:15  
A.M. train late - should have  
left 5:40 A.M. Arrived Grand C. 10 A.M.  
Found Dr. W.P. Taylor awaiting  
me at Grand Canyon and in  
afternoon a trip was made to  
rodent grazing areas on Lees Ferry  
Wash.

Grazing areas. Found to be in  
very satisfactory condition.  
These areas consist of two  
plots of about  $\frac{3}{4}$  A. each plus  
total exclusion area, and the  
owner a fence to include a

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs.			
Baggage transfer ... .. pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 26 con.

supposedly typical number of prairie dogs. Marked differences are shown in the two, but the rodent grazed area shows rather scant damage as though the number of dogs present was below the average. Returned to Williams in evening leaving at 7:25 and arriving about 10 P.M.

Oct. 27.

Made trip <sup>from</sup> at Williams in morning with Forest Supervisor Mr. Kimball to grazing areas about 4 mi. N. of town.

Grazing areas. One of these is total exclusion area and the other fenced against stock

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs. ....			
Baggage transfer ..... pes. ....			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 27 con:

But freely accessible to prairie dogs. Here a remarkable difference is noticeable. It was particularly noted that the dogs appear to take nearly all the seeding heads of grasses. Left in evening, about 10 o'clock and reached Flagstaff about 11 P.M.

Oct. 28 - Flagstaff.

Made a trip out to Fort Valley Experiment Station where we met Mr. G. A. Pearson who is in charge and who has been carrying on studies of various kinds at that point since 1908. One of the important parts of his work has been

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Cheeking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			
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Oct. 28 con.

the study of factors limiting the distribution of forest types. Much of his work has been on the yellow pine, but other trees of the region have been studied, and temperature taken, both surface and underground at various stations up to near the limit of tree growth on the mountain. Mr. Pearson was very courteous and friendly most of the day was spent with him and Mr. Woodbury and Mr. Price of the S.F. office of D.S. who also visited the station on their way to a meeting of forest officers to discuss matters relating to forest management at Crowley. Mrs.

ITEMS	PLACE	Dolls.	Cts.
Breakfast..... Tip.....			
Dinner..... Tip.....			
Supper..... Tip.....			
Lodging..... to .....			
Laundry .....			
Porter..... { Sleeper .....			
{ Parlor car .....			
Depot porter..... { Arrival .....			
{ Departure .....			
Hotel porter..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer --- ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Oct. 28

Pearson offered himself as being agreeable to having us take up work at that station and believed he could furnish a house.

Remained overnight at Flagstaff.  
A heavy snow-storm in progress

Oct. 29 - Seligman.

Trains delayed, but we finally left Flagstaff about 12 m. and arrived at Seligman about 3 P.M.



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ITEMS		PLACE	Dolls.	Cts.
Breakfast .....	Tip .....			
Dinner .....	Tip .....			
Supper .....	Tip .....			
Lodging, .....	to .....			
Laundry .....				
Porter .....	Sleeper .....			
	Parlor car .....			
Depot porter .....	Arrival .....			
	Departure .....			
Hotel porter .....	Arrival .....			
	Departure .....			
Checking baggage .....	pcs. ....			
Baggage transfer .....	pcs. ....			
From .....	to .....			
Street car fare—				
From .....	to .....			
Miscellaneous:				

Def. 30.

Made examination of grazing experimental plots about 10 miles south of Delegivan. Found that prairie dogs had been apparently killed off in that vicinity and this experiment is therefore of little value.

Left in evening for California on vacation.

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ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs.			
Baggage transfer ... .. pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Nov. 20, La Jolla, Calif.  
 Resumed official duty at  
 La Jolla 12.30 P.M.  
 Was met at Delmar by W. P. Taylor  
 who drove me in his car to  
 La Jolla where inspection of  
 station was made and consider-  
 ation of various matters  
 taken up with Taylor.

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage .. .... pcs.			
Baggage transfer ... .... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Nov. 21, La Jolla, Calif.  
 Made trip to San Diego where  
 conferred with A. W. Anthony,  
 Frank Stephens and others and  
 drove out into country in  
 afternoon to note character,  
 returning to La Jolla in  
 evening.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----			
Depot porter -----			
Hotel porter -----			
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Nov. 22, La Jolla to  
El Centro and on ~~the~~  
route to Phoenix, Ariz.

Left San Diego 10.15 A.M.  
arrived El Centro 3.45 P.M. Left  
El Centro 8.40 P.M. for Phoenix

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer --- ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			

No. 23. Phoenix

Arrived Phoenix about  
~~9 A.M.~~ 8:40 A.M.

Rev. Gilchrist says mt.  
are reported to occur in  
numbers on Huachuca Ind.  
Res. west of Diamond Lk.  
Indian agent at Valentine  
William Light - tipson and  
telegraph address Hackberry -  
mail address Valentine offered  
to take <sup>him</sup> out to get a specimen.  
He says mt. sheep in the  
mountain ranges of S.W. Ariz. N. of  
railroad - Moppy mts, Santa Rosa  
Mts, Chocolate Mts, Tingo mts,  
Gila Park Mts. and in White  
Tank Mts. west of Phoenix. Also  
inajo mts. and other ranges of  
that vicinity. Sheep are said

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... Sleeper .....			
Parlor car .....			
Depot porter ..... Arrival .....			
Departure .....			
Hotel porter ..... Arrival .....			
Departure .....			
Checking baggage - ..... pcs.			
Baggage transfer ... ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Nov. 23 am

By Gilchrist to be regularly hunted in desert ranges by people from Guwa. the local game warden ~~to~~ apparently making little or no effort to check them.

<sup>white tail</sup>  
Deer. Gilchrist says deer are said to be becoming increasingly abundant on Apache Game Preserve. Deer are very abundant on Louis Maria Baca land Grant where no hunting is regularly allowed by those in charge. This area therefore seems as a game preserve from which deer can readily spread to other areas.

Elk. Gilchrist says road opened from Heber, Ariz. to Babous Butte along rim of

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
	Parlor car .....		
Depot porter ..... { Arrival .....			
	Departure .....		
Hotel porter ..... { Arrival .....			
	Departure .....		
Checking baggage ..... pcs.			
Baggage transfer ... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			

Nov. 23 con.

Tonto Basin where he saw many signs. Two years ago one wandered west to near Ash Fork and was seen frequently by many residents among whom was Dr. C. C. Barrett asst. state Entom. and Ab. Smith a present stockman located <sup>10 miles</sup> north of Ash Fork and was last seen on his range. Sept. 29<sup>1922</sup> ~~the~~ predating animal hunter Chas. Miller reported seeing 32 elk and found elk calf killed by lion on upper Leonard Canyon. Two deer hunters reported to Miller that while hunting deer they found an elk near

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
	Parlor car .....		
Depot porter ..... { Arrival .....			
	Departure .....		
Hotel porter ..... { Arrival .....			
	Departure .....		
Checking baggage . . . . . pcs.			
Baggage transfer ... . . pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Nov. 23 am.

Promontory Town where he tried the lion but it jumped down and escaped in the rocks.

Grizzly - Look up skin & skull serial to have run out in the office. Shot near ~~at~~ <sup>in</sup> Parksville ~~between~~ <sup>near</sup> Williams southward of Williams about 40 miles. This animal had been in range 19 years and Perkins estimates it killed \$25000 worth of live stock for him alone. A bounty of \$500 on its head stood for many years.

Deer - ~~Thar~~ <sup>on west side of</sup> white tails reported in ~~Thar~~ <sup>Thar</sup> Antelope. Gil. says they are being shot openly



....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast ..... Tip .....			
Dinner ..... Tip .....			
Supper ..... Tip .....			
Lodging, ..... to .....			
Laundry .....			
Porter ..... { Sleeper .....			
{ Parlor car .....			
Depot porter ..... { Arrival .....			
{ Departure .....			
Hotel porter ..... { Arrival .....			
{ Departure .....			
Checking baggage ..... pcs.			
Baggage transfer ..... pcs.			
From ..... to .....			
Street car fare—			
From ..... to .....			
Miscellaneous:			
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Nov. 23 con.

By railcars on Audubon  
Miss.

Left Phoenix 6.25 P.M. for  
Tucson where I arrived at  
10.45

Nov. 24, Tucson.

Dr. Chas. J. Volhies called for  
me at Congress Hotel with  
his car and with Loren  
Gofffield we made a trip  
to the Range Reserve where  
quadrats have been established  
and <sup>rodent, grazing</sup> experiments of various kinds  
are in progress. Arranged with  
Volhies for him and Dr. Taylor  
to take up study of life habits  
of jack rabbits. ~~Volhies~~  
Jack rabbits—(white sided)  
Lepus allini. Volhies showed  
me a place where these rabbits

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Nov. 24 con.

resort in considerable numbers and dig shallow pits in a bank as evidenced by marks of their feet and files scattered about. The soil was of a dark reddish color and apparently has some attraction for them.

Canis. Secured a skull trapped at N. end of sta. Rita Mts. which is of a ♀ of very small size.

Left Tucson at 11.59 P.M. for Washington after spending nearly entire evening with Lorn Toftfield whom I found a very congenial chap, much interested in the plotting of vegetation.

Nov. 25 - 28 En route  
Wash. D.C. arriving at  
1235 P.M. on latter date.

Joe Creek  
% Upland bitum.  
Gravel Assoc.  
Upland, lentif.

St. Thomas to Butler Spg. 8 mi.  
B. to Mud Spg. - 10 mi.  
Grand Wash 12 mi (McDargus  
Ranch)

~~Back to water 2 mi. of~~

~~Mud Spg.~~

~~Harve Spg. - 3 mi. (good  
water)~~

~~N.W. to Gold Butte 4 mi.~~

Back to Mud & Butler  
Spg. and S to Gold Butte.  
Butler to Gold Butte 16 mi.

out. Twin Spgs. - 12 mi.

from S to SR. Durham

Oct. 7 - Oct. 26

17.01

26.18